



BLUE ROCK
ENVIRONMENTAL, INC.

FILE COPY

Mr. Bob Stone
Environmental Health Specialist
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA, 95501

January 17, 2006

Re: **First Quarter 2006 Groundwater Monitoring
& Groundwater Extraction System Report**
Dave's 76
1666 Main Street
Fortuna, California
LOP #12708
Project No. NC-20

Dear Mr. Stone,

This report presents the results of the First Quarter 2006 groundwater monitoring activities and groundwater extraction system operations at 1666 Main Street, Fortuna, Humboldt County, California (site) (Figure 1), and was prepared for Mr. David Ansley by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description

The site is located on Main Street in the City of Fortuna, Humboldt County, California one block north west of the intersection of Main Street and South Fortuna Boulevard (Figure 1). The site is an active service station constructed in 1958 that sells gasoline and diesel fuel. Onsite improvements consist of a single story building, two dispenser islands and three double wall fiberglass wrapped underground storage tanks (UST). The tank complex contains one 6,000-gallon UST storing premium gasoline, one 12,000-gallon UST storing regular gasoline and one 6,000-gallon diesel UST utilizing four fuel dispensers. Water and sewer services at the site are provided by public utilities. The site is paved with asphalt with the exception of the northwest corner in the vicinity of the former waste oil UST.

Site History

In 1995, one waste oil UST was removed by the station owner. Soil and groundwater samples were not collected by the owner. In March 1999, three 6,000-gallon gasoline USTs located in a complex at the eastern end of the property, and one 2,000-gallon diesel UST located approximately 5 feet west of the south fuel dispenser island were removed by Beacom Construction of Fortuna, California. The removed USTs were replaced with the previously mentioned current UST system.

During UST excavation activities of March 1999, visibly contaminated soil was removed through overexcavation of the tank pits which formerly contained the diesel and gasoline USTs. Approximately 450 cubic yards of petroleum contaminated soil were removed from the excavations. The soil was stockpiled on site and covered with plastic sheeting. Analytical results of samples collected from the excavations confirmed the presence of gasoline and diesel range hydrocarbons in the soil and groundwater.

The excavation was deepened below first encountered groundwater. Groundwater was encountered in the excavations at a depth of approximately 5.5 feet below ground surface (bgs). Groundwater was pumped from the excavation into an onsite holding tank. In April 1999, Clearwater Group (Clearwater) installed an aeration system onsite and groundwater in the holding tank was aerated by pumping air into the standing water. This was performed to volatilize some of the existing hydrocarbons prior to offsite disposal. Aerated groundwater was subsequently disposed of offsite by a licensed contractor. As previously mentioned, the new USTs were installed in the existing excavation. The excavation associated with the diesel UST was subsequently backfilled with clean imported gravel.

Site Investigation and Corrective Action History

In September 2000, Clearwater supervised Denbeste Trucking of Windsor, California in the removal of soil generated during the overexcavation activities of March 1999. Approximately 724 tons of petroleum impacted soil was transported to Forward Inc. in Manteca, California. Soil below the former stockpile was sampled per Humboldt County Division of Environmental Health (HCDEH) requirements.

On January 8, 9, and 12, 2001, Clearwater supervised Clearheart Drilling of Santa Rosa, California in the drilling of 11 soil borings. On February 14, 2001, three 2-inch monitoring wells (MW-1 to MW-3) were installed in accordance with Clearwater's *Revised Subsurface Investigation Workplan* dated November 3, 1999. Well construction details are presented in Table 2. Data collected during this phase of investigation confirmed the presence of gasoline, diesel and motor oil range hydrocarbons in soil and groundwater at the subject site. Results of the subsurface investigation are presented in Clearwater's *Subsurface Investigation Report* dated March 22, 2001.

On November 15, 2001, Clearwater supervised Mitchell Drilling Environmental (MDE) of Rancho Cordova, California in the installation of five 2-inch diameter monitoring wells (MW-4, through MW-8) in accordance with Clearwater's *Plume Delineation Workplan / Sensitive Receptor Survey* dated July 19, 2001. Results of the subsurface investigation are presented in Clearwater's *Additional Investigation and Fourth Quarter 2001 Quarterly Monitoring Report* dated January 10, 2002.

On June 10, 2002, Clearwater supervised MDE in the installation of four 2-inch diameter monitoring wells (MW-9, through MW-12) in accordance with Clearwater's *Workplan for Additional Investigation* dated April 8, 2002. Results of the subsurface investigation are

presented in Clearwater's *Additional Investigation and Second Quarter 2002 Quarterly Monitoring Report* dated July 31, 2002.

On October 11, 2002, Clearwater supervised MDE in the installation of two 2-inch diameter monitoring wells (MW-13 and MW-14) in accordance with Clearwater's *Workplan for Additional Investigation* dated August 30, 2002. Results of the subsurface investigation are presented in Clearwater's *Additional Investigation and Fourth Quarter 2002 Quarterly Monitoring Report* dated November 25, 2002.

In accordance with Clearwater's *Workplan for Additional Investigation* dated February 20, 2003, Clearwater supervised MDE in drilling four 8-inch diameter soil borings on June 10, 2003 (MW-15 through MW-18). Results of the subsurface investigation are presented in Clearwater's *Additional Investigation and Third Quarter 2003 Groundwater Monitoring Report* dated August 5, 2003.

On February 11, 2004, Clearwater submitted a *Corrective Action Plan* (CAP) to the HCDEH. In a letter dated February 23, 2004 the HCDEH concurred with the proposed remedial action contained in the CAP. In the letter, the HCDEH recommended abandonment of MW-1, MW-2, and MW-4 prior to implementation of the proposed excavation activities. In May 2004, Blue Rock was retained by Mr. Ansley to continue site work. MW-1, MW-2, and MW-4 were destroyed per HCDEH request in June 2004.

Between the dates of October 19 and October 29, 2004, Blue Rock and Van Meter Construction completed remedial activities associated with the removal and disposal of 790 tons of contaminated soil and approximately 4,000 gallons of groundwater associated with the former UST fuel system at the subject site. Blue also installed one groundwater extraction trench for future connection to a remedial compound.

On October 22, 2004, Blue Rock proposed to relocate the position of proposed extraction trench EX-1. The proposed change was based on subsurface conditions, logistics and cost. The HCDEH concurred with this proposal in a letter dated October 26, 2004. Upon completion of the excavation activities described above Blue Rock prepared and submitted a *Remedial Report of Findings* dated November 12, 2004.

On December 20, 2004 Blue Rock performed a constant discharge aquifer test on EX-1 to determine specifications for the groundwater extraction system proposed in the CAP dated February 11, 2004 prepared by Clearwater. Blue Rock subsequently prepared and submitted a *Constant Discharge Aquifer Test and Groundwater Extraction Treatment System Design Report* dated February 3, 2005. The groundwater extraction treatment system design was approved by the HCDEH in a letter dated February 24, 2005.

On March 9 and 10, 2005, Blue Rock supervised Sustainable Technologies of Alameda, California install the approved skid mounted groundwater extraction system. The GWE system

installation was documented with the submittal of Blue Rock's *Groundwater Extraction Treatment System Installation Report* dated March 31, 2005. Startup of the groundwater extraction / treatment (GWE) system was commenced on September 6, 2005.

Field and Laboratory Activities

Groundwater Monitoring Activities

On January 4, 2006, 15 wells (MW-3 and MW-5 through MW-18) were gauged and sampled. Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ± 0.01 -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized. Following recovery of water levels to approximately 80% of their static levels, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox[®] wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinse water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHd by EPA Method 8015M (silica gel cleanup)
- TPHg, BTEX, MTBE by EPA Method 8260B
- TPHmo by EPA Method 8015M (silica gel cleanup) (MW-8 only)

Groundwater Monitoring Results

Groundwater Flow Direction and Gradient

Static groundwater in the wells was present beneath the site at depths ranging from approximately 0.5 (MW-8) to 8.51 (MW-5) feet bgs, while the groundwater extraction system was active. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map (Figure 3).

Based on groundwater elevation data collected in the fourth quarter 2005 groundwater monitoring event, it appears groundwater extraction from EX-1 has created a capture zone of approximately 75 feet downgradient of the former USTs (Figure 3). This empirical capture zone correlates well with the estimated downgradient capture zone of 60 feet by Blue Rock in their *Constant Discharge Aquifer Test and Groundwater Extraction Treatment System Design Report* dated February 4, 2005. Beyond the capture zone, groundwater flow has been to the south, and southeast. However, due to a loss of power at the site during the first week of January 2006, groundwater elevation data was collected during this event with the system off thus no capture zone was observed. Groundwater flow was observed to be to the southeast at gradients of 0.1 at the site, becoming easterly to the south of the site.

Groundwater Contaminant Analytical Results

LNAPL:	None
TPHg concentration:	<50 µg/L (14 wells) to 5,800 µg/L (MW-7)
TPHd concentration:	<50 g/L (14 wells) to <2,000 µg/L (MW-7)
MTBE concentration:	<0.5 µg/L (2 wells) to 730 µg/L (MW-7)
Benzene concentration:	<0.5µg/L (14 wells) to 98 µg/L (MW-7)

Groundwater sample analytical results are shown graphically on Figures 4, 5, and 6. Cumulative groundwater sample analytical results are summarized in Table 1. Copies of the laboratory report and chain-of-custody form are attached.

Remarks

Groundwater sample analytical results are consistent with the last groundwater monitoring event. The method reporting limit for TPHd in MW-7 was increased due to interference from gasoline range hydrocarbons.

Groundwater Extraction System Startup and Operations

Groundwater Extraction/Treatment System Startup

Startup of the groundwater extraction / treatment (GWE) system was commenced on September 6, 2005. Startup consisted of the initiation of pumping groundwater from extraction well EX-1. Following startup, the system was monitored and subsequently adjusted to maximize the pumping rate from EX-1. In accordance with the North Coast Unified Air Quality Management District (NCUAQMD) Authority to Construct Permit # NAC 472, air above the treated water discharge point was collected and analyzed for TPHg, BTEX and MTBE.

Operational Data - Groundwater Extraction/Treatment System

Extracted groundwater is treated by passing it through two liquid-phase carbon vessels arranged in series (Figure 7). The electric pump is set at depth of approximately 16.5 feet bgs (2.5 feet off the bottom of EX-1). The low and high water switches for the pump are placed at approximately 15 and 16 feet bgs, which maximizes drawdown in EX-1, without allowing the

water level to drop below the pump inlet. The pump cycles on and off between these depths. Influent samples are collected at sample port (Influent), located before the 300 gallon transfer tank (Table 3). Effluent samples are collected at a sample port (Effluent), located downstream of the second carbon vessel (Table 3). Treated groundwater is then discharged to the sanitary sewer located in the remedial compound. The groundwater treatment system is operated in accordance with the Fortuna Public Works Department.

The following is a summary of operational data pertaining to the groundwater extraction / treatment system:

- GWE system started: 9/6/05
- Monitoring events this period: 11/8/05, 11/15/05, 12/8/05, 12/28/05, 1/4/06,
- Total effluent discharge: 149,380 gals (since startup in 9/6/05)
- Effluent discharge this period: 123,910 gals
- Operational depth to water in EX-1: ~15 to ~16 feet bgs
- Total TPHg mass recovery: 0.45 lb. to date (Table 4)
- TPHg mass recovery this period: 0.33 lb. (Table 4)

System Status - Groundwater Extraction/Treatment System

Groundwater has been extracted from extraction basin EX-1 since initial startup on September 6, 2005. Effluent water samples collected were below laboratory detection limits for all analytes. Air samples collected per the NCUAQMD permit were below detection limits for all analytes (Table 5). Based on the groundwater elevation data collected during the previous event, it appears that operation of the GWE is producing a zone of capture, which extends approximately 75 feet downgradient of the former USTs.

Project Status and Recommendations

- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for March 2006. Groundwater samples will be analyzed for TPHg, TPHd, BTEX and MTBE (all wells) and TPHmo (MW-8 only).
- Currently, the groundwater extraction system is operating as designed, controlling the downgradient migration of, and recovering, dissolved-phase petroleum hydrocarbon contaminants. Operation of the GWE system should continue. At a minimum, the system will be monitored and sampled on a monthly basis.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock or others. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

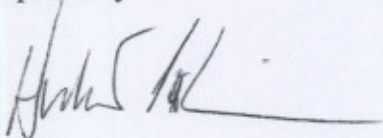
Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

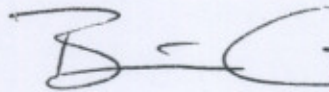
Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

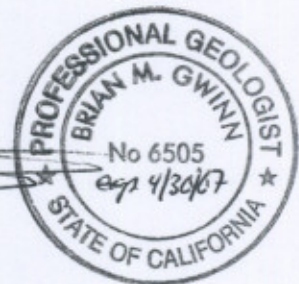


Andrew LoCicero
Project Scientist

Reviewed by:



Brian Gwinn, PG
Principal Geologist



Attachments:

Table 1: Groundwater Elevation and Analytical Data

Table 2: Monitoring Well Construction Details

Table 3: Groundwater Extraction System Analytical Results

Table 4: Cumulative Hydrocarbon Recovery from Groundwater

Table 5: Groundwater Extraction System Discharge Air Analytical Results

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3: Groundwater Elevations and Gradient – 1/4/06

Figure 4: Dissolved - Phase TPHg Distribution – 1/4/06

Figure 5: Dissolved - Phase MTBE Distribution – 1/4/06

Figure 6: Dissolved - Phase Benzene Distribution – 1/4/06

Figure 7: Groundwater Extraction System Schematic

Blue Rock Gauge/Purge Calculations and Well Purging Data field sheets

Laboratory Analytical Report and Chain-of-Custody Form

NCUAQMD Authority to Construct Permit

cc:

Mr. Dave Ansley
1666 Main Street
Fortuna, CA 95540

Mr. Al Steer
Air Source Permit Manager
NCUAQMD
2300 Myrtle Ave.
Eureka, CA 95501

Table 1
Groundwater Elevations and Analytical Results

Dave's 76
1666 Main Street
Fortuna, California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-1 Screen 5' - 25'	2/21/01	98.89	9.10	0.00	89.79	7,510	1,790	<50	3,240	90.1	437	440	4,000	<500	<0.5	<0.5	<0.5	--	--
	5/4/01	98.89	8.97	0.00	89.92	14,000	<2,000	<100	2,800	170	990	1,000	3,900	860	<10	<10	25	--	--
	8/3/01	98.89	11.47	0.00	87.42	20,000	<2,000	<100	2,400	150	1,200	1,300	2,900	690	<10	<10	33	--	--
	11/28/01	98.89	8.95	0.00	89.94	29,000	<4,500	<100	1,200	210	1,800	3,000	990	310	<10	<10	<10	<6,300	<100
	1/14/02	98.89	6.69	0.00	92.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	98.89	7.02	0.00	91.87	43,000	<3,800	<100	1,300	130	1,200	2,100	1,200	330	<5	<5	7.5	<3,100	<50
	3/19/02	98.89	7.26	0.00	91.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	98.89	7.95	0.00	90.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/14/02	65.81	9.96	0.00	55.85	16,000	<2,500	790	1,400	79	710	1,000	1,400	360	<5	<5	9.6	<500	<100
	10/24/02	65.81	13.36	0.12	52.45	SPH Present No Sample Taken													
	1/23/03	65.81	8.69	0.00	57.12	22,000	<2,000	--	1,200	85	940	1,000	1,400	390	<5	<5	11	<500	<50
	4/16/03	65.81	8.15	0.00	57.66	11,000	<2,000	--	920	36	290	260	1,200	290	<5	<5	10	<500	<50
	7/7/03	65.81	10.71	0.00	55.10	15,000	<3,000	--	980	56	620	670	1,100	330	<5	<5	11	<500	<50
	10/15/03	65.81	13.79	0.00	52.02	9,000	<3,000	--	920	30	360	290	1,600	480	<5	<5	20	<500	<50
	1/29/04	65.81	8.89	0.00	56.92	11,000	<3,000	--	800	34	480	380	880	240	<2.5	<2.5	7.6	<250	<25
	4/12/04	65.81	9.56	0.00	56.25	11,000	<3,000	--	690	32	450	390	810	240	<2.5	<2.5	7.4	<250	<25
	07/06/04	Well destroyed in preparation for excavation activities																	
MW-2 Screen 5' - 25'	2/21/01	97.79	8.95	0.00	88.84	7,550	1,440	<50	2,770	226	336	758	4,170	<1,000	<10	<10	<10	--	--
	5/4/01	97.79	8.98	0.00	88.81	8,300	<1,500	<100	1,800	170	180	630	2,600	1,100	<5	<5	72	--	--
	8/3/01	97.79	11.10	0.00	86.69	16,000	<1,500	<100	1,600	440	290	1,700	2,800	1,200	<5	<5	83	--	--
	11/28/01	97.79	8.55	0.00	89.24	7,300	<1,300	<100	630	72	230	400	950	580	<2.5	<2.5	40	<3,900	<25
	1/14/02	97.79	6.79	0.00	91.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	97.79	7.13	0.00	90.66	5,100	<500	<100	750	41	140	220	1,400	530	<2.5	<2.5	43	<3,600	<25
	3/19/02	97.79	7.27	0.00	90.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	97.79	8.22	0.00	89.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/14/02	64.70	9.94	0.00	54.76	20,000	<3,500	<200	530	260	180	1,800	1,000	500	<2.5	<2.5	44	<500	<50
	10/24/02	64.70	12.68	0.09	52.02	SPH Present No Sample Taken													
	1/23/03	64.70	8.91	0.00	55.79	11,000	<5,000	--	270	22	170	340	1,600	630	<2.5	<2.5	55	<250	<25
	4/16/03	64.70	8.20	0.00	56.50	5,900	<3,000	--	240	13	160	120	1,400	550	<5	<5	49	<500	<50
	7/7/03	64.70	10.48	0.00	54.22	9,000	<3,000	--	280	68	210	560	1,100	450	<2.5	<2.5	40	<250	<25
	10/15/03	64.70	13.08	0.00	51.62	8,800	<3,000	--	300	41	270	420	1,100	480	<2.5	<2.5	41	<250	<25
	1/29/04	64.70	8.88	0.00	55.82	6,400	<2,000	--	240	17	170	230	810	360	<2	<2	30	<200	<20
	4/12/04	64.70	9.63	0.00	55.07	4,700	<2,000	--	190	18	140	190	640	250	<1.5	<1.5	22	<150	<15
	07/06/04	Well destroyed in preparation for excavation activities																	
MW-3 Screen 5' - 25'	2/21/01	99.33	7.07	0.00	92.26	<50	<50	<50	<0.3	<0.3	<0.3	<0.6	<2.0	<500	<0.5	<0.5	<0.5	--	--
	5/4/01	99.33	7.20	0.00	92.13	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	7.6	<500	<0.5	<0.5	<0.5	--	--
	8/3/01	99.33	8.99	0.00	90.34	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	16	<5	<0.5	<0.5	2.7	--	--
	11/28/01	99.33	7.40	0.00	91.93	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	12	<5	<0.5	<0.5	3.5	<120	<5
	1/14/02	99.33	5.34	0.00	93.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	99.33	6.47	0.00	92.86	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	6.8	<5	<0.5	<0.5	1.2	<50	<5
	3/19/02	99.33	6.58	0.00	92.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	99.33	7.50	0.00	91.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/14/02	66.24	9.35	0.00	56.89	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	3.3	<5	<0.5	<0.5	<0.5	<50	<5
	10/24/02	66.24	13.73	0.00	52.51	<50	<50	--	<0.5	<0.5	<0.5	<0.5	5.6	<5	<0.5	<0.5	<0.5	<50	<5
	1/23/03	66.24	8.26	0.00	57.98	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.9	<5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	66.24	7.80	0.00	58.44	<50	200	--	<0.5	<0.5	<0.5	<0.5	1.9	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	66.24	10.78	0.00	55.46	<50	68	--	<0.5	<0.5	<0.5	<0.5	1.6	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	66.24	14.55	0.00	51.69	<50	85	--	<0.5	<0.5	<0.5	<0.5	2.0	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	66.24	8.49	0.00	57.75	<50	96	--	<0.5	<0.5	<0.5	<0.5	1.7	<5	<0.5	<0.5	<0.5	<50	<5

Table 1
Groundwater Elevations and Analytical Results
 Dave's 76
 1666 Main Street
 Fortuna, California
 Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPH _g (µg/L)	TPH _d (µg/L)	TPH _{iso} (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-3 Screen 5' - 25'	4/12/04	66.24	9.40	0.00	56.84	<50	97	--	<0.5	<0.5	<0.5	<0.5	1.2	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	66.24	11.67	0.00	54.57	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.4	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	66.24	13.59	0.00	52.65	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	66.24	8.76	0.00	57.48	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	0.93	<5	<0.5	<0.5	<0.5	--	--
	04/27/05	66.24	8.47	0.00	57.77	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	0.77	<5	<0.5	<0.5	<0.5	--	--
	07/11/05	66.24	9.82	0.00	56.42	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	0.64	--	--	--	--	--	--
	10/13/05	66.24	14.34	0.00	51.90	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	0.78	--	--	--	--	--	--
	01/04/06	66.24	8.41	0.00	57.83	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	0.74	--	--	--	--	--	--
	11/28/01	98.60	9.05	0.00	89.55	3,000	<700	<100	46	2.1	37	87	140	34	<0.5	<0.5	<0.5	<50	<5
	1/14/02	98.60	6.39	0.00	92.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4 Screen 5' - 25'	2/21/02	98.60	6.55	0.00	92.05	14,000	<1,200	<100	67	6.8	170	170	160	41	<2	<2	<2	<300	<20
	3/19/02	98.60	7.01	0.00	91.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	98.60	7.42	0.00	91.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	65.51	9.45	0.00	56.06	3,700	<1,000	<100	24	2	48	27	120	28	<0.5	<0.5	<0.5	<50	<10
	10/24/02	65.51	12.93	0.00	52.58	1,900	<400	--	16	1.1	9.1	6	82	18	<0.5	<0.5	<0.5	<100	<5
	1/23/03	65.51	8.33	0.00	57.18	3,300	<1,000	--	12	1.1	41	14	160	30	<0.5	<0.5	<0.5	<50	<5
	4/16/03	65.51	8.01	0.00	57.50	4,300	<1,000	--	7.5	2	110	29	58	8.8	<0.5	<0.5	<0.5	<50	<15
	7/7/03	65.51	10.25	0.00	55.26	2,000	<500	--	3.5	1.1	27	6.5	77	9.9	<0.5	<0.5	<0.5	<50	<5
	10/15/03	65.51	13.46	0.00	52.05	1,200	<300	--	2.2	0.5	13	2.7	33	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	65.51	8.38	0.00	57.13	1,800	<600	--	1.7	0.71	15	4.5	73	7.9	<0.5	<0.5	<0.5	<50	<8
MW-5 Screen 5' - 25'	4/12/04	65.51	8.99	0.00	56.52	2,900	<1,500	--	1.2	1.3	24	8.3	29	<5	<0.5	<0.5	<0.5	<50	<10
	Well destroyed in preparation for excavation activities																		
	11/28/01	98.47	6.49	0.00	91.98	<50	58	<100	1.2	<0.5	<0.5	<0.5	30	11	<0.5	<0.5	<0.5	<200	<5
	1/14/02	98.47	3.71	0.00	94.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	98.47	5.78	0.00	92.69	560	<200	<100	46	0.52	1.3	0.63	150	15	<0.5	<0.5	20	<50	<5.0
	3/19/02	98.47	6.23	0.00	92.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	98.47	7.48	0.00	90.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	65.37	10.07	0.00	55.30	<50	110	<100	<0.5	<0.5	<0.5	<0.5	41	<5	<0.5	<0.5	2.5	<50	<5
	10/24/02	65.37	13.20	0.00	52.17	<50	150	--	<0.5	<0.5	<0.5	<0.5	100	14	<0.5	<0.5	3.6	<100	<5.0
	1/23/03	65.37	8.96	0.00	56.41	<50	78	--	<0.5	<0.5	<0.5	<0.5	2.8	<5	<0.5	<0.5	<0.5	210	17
MW-6 Screen 5' - 25'	4/16/03	65.37	8.21	0.00	57.16	<50	540	--	<0.5	<0.5	<0.5	<0.5	3.7	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	65.37	10.83	0.00	54.54	<50	220	--	<0.5	<0.5	<0.5	<0.5	2.2	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	65.37	13.64	0.00	51.73	<50	800	--	<0.5	<0.5	<0.5	<0.5	17	<5	<0.5	<0.5	<0.5	<50	13
	1/29/04	65.37	8.56	0.00	56.81	<50	600	--	<0.5	<0.5	<0.5	<0.5	20	<5	<0.5	<0.5	0.71	<50	<5
	4/12/04	65.37	9.64	0.00	55.73	<50	350	--	<0.5	<0.5	<0.5	<0.5	1.7	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	65.37	12.91	0.00	53.96	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	65.37	12.91	0.00	52.46	<50	<50	--	<0.5	<0.5	<0.5	<0.5	9.7	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	65.37	8.84	0.00	56.53	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	7.2	<5	<0.5	<0.5	<0.5	--	--
	04/27/05	65.37	8.04	0.00	57.33	94	<50 ¹	--	2.2	<0.5	<0.5	<0.5	56	--	--	--	--	--	--
	07/11/05	65.37	10.14	0.00	55.23	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	1.2	--	--	--	--	--	--
MW-6 Screen 5' - 25'	10/13/05	65.37	13.77	0.00	51.60	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	1.6	--	--	--	--	--	--
	01/04/06	65.37	8.51	0.00	56.86	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	4.6	--	--	--	--	--	--
	11/28/01	95.07	6.30	0.00	88.77	<500	<50	<100	38	<5	<5	<5	1,800	1,000	<5	<5	17	<3,200	<50
	1/14/02	95.07	4.48	0.00	90.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	95.07	4.68	0.00	90.39	<200	<50	<100	12	<2	<2	<2	820	310	<2	<2	16	<200	<20
	3/19/02	95.07	4.89	0.00	90.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
(6/14/02)	4/11/02	95.07	5.84	0.00	89.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/14/02	61.99	7.47	0.00	54.52	<250	<50	<100	10	<2.5	<2.5	<2.5	980	400	<2.5	<2.5	15	<1,000	<25

Table 1
Groundwater Elevations and Analytical Results

Dave's 76
1666 Main Street
Fortuna, California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPH _g (µg/L)	TPH _d (µg/L)	TPH _{mo} (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-6 Screen 5' - 25'	10/24/02	61.99	10.02	0.00	51.97	<500	<50	--	<5	<5	<5	<5	1,400	400	<5	<5	16	<500	<50
	1/23/03	61.99	6.50	0.00	55.49	<200	68	--	<2	<2	<2	<2	720	240	<2	<2	12	<200	<20
	4/16/03	61.99	5.77	0.00	56.22	<200	350	--	2.6	<2	<2	<2	1,000	320	<2	<2	17	<200	<20
	7/7/03	61.99	8.02	0.00	53.97	<200	140	--	<2	<2	<2	<2	860	210	<2	<2	9.8	<200	<20
	10/15/03	61.99	10.47	0.00	51.52	<50	150	--	<0.5	<0.5	<0.5	<0.5	350	89	<0.5	<0.5	3.8	<50	<5
	1/29/04	61.99	6.43	0.00	55.56	<50	210	--	<0.5	<0.5	<0.5	<0.5	260	44	<0.5	<0.5	3.0	<50	<5
	4/12/04	61.99	7.19	0.00	54.80	<50	110	--	<0.5	<0.5	<0.5	<0.5	230	<5	<0.5	<0.5	2.6	<50	<5
	07/06/04	61.99	8.46	0.00	53.53	<50	<50	--	<0.5	<0.5	<0.5	<0.5	130	<5	<0.5	<0.5	1.3	<50	<5
	10/04/04	61.99	9.72	0.00	52.27	<50	<50	--	<0.5	<0.5	<0.5	<0.5	89	<5	<0.5	<0.5	0.65	--	--
	01/05/05	61.99	6.57	0.00	55.42	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	81	<5	<0.5	<0.5	0.55	--	--
	04/27/05	61.99	6.45	0.00	55.54	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	410	--	--	--	--	--	--
	07/11/05	61.99	7.60	0.00	54.39	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	630	--	--	--	--	--	--
	10/13/05	61.99	10.23	0.00	51.76	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	120	--	--	--	--	--	--
	01/04/06	61.99	6.48	0.00	55.51	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	56	--	--	--	--	--	--
	11/28/01	97.90	8.51	0.00	89.39	<1,100	<1,100	<100	83	830	830	700	4,900	2,100	<20	<20	83	<12,000	<200
	1/14/02	95.07	6.64	0.00	88.43	--	--	<100	--	46	410	230	2,700	710	<10	<10	37	<1,100	<100
	2/21/02	95.07	6.99	0.00	88.08	11,000	<1,000	--	--	--	--	--	--	--	--	--	--	--	--
MW-7 Screen 5' - 25'	3/19/02	95.07	7.17	0.00	87.90	--	--	<100	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	95.07	8.04	0.00	87.03	--	--	<100	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	64.79	9.79	0.00	55.00	9,700	<500	--	36	350	350	150	2,400	670	<5	<5	30	<2,000	<100
	10/24/02	64.79	12.59	0.00	52.20	12,000	<1,300	--	39	470	470	100	4,300	1,100	<5	<5	58	<2,000	<250
	1/23/03	64.79	8.85	0.00	55.94	8,500	<2,000	--	25	400	400	140	1,900	530	<5	<5	27	<500	<50
	4/16/03	64.79	8.04	0.00	56.75	7,300	<1,500	--	24	210	210	59	2,200	600	<10	<10	27	<1,000	<100
	7/7/03	64.79	10.40	0.00	54.39	14,000	<3,000	--	33	480	480	580	2,300	610	<5	<5	31	<500	<50
	10/15/03	64.79	13.15	0.00	51.64	12,000	<4,000	--	21	340	340	420	3,300	380	<5	<5	31	<500	<50
	1/28/04	64.79	8.87	0.00	55.92	24,000	<4,000	--	890	20	700	900	1,600	480	<5	<5	23	<500	<50
	4/12/04	64.79	9.50	0.00	55.29	15,000	<3,000	--	730	25	520	900	1,400	400	<5	<5	18	<200	<20
	07/06/04	64.79	10.97	0.00	53.82	14,000	<4,000	--	760	20	450	570	1,300	470	<5	<5	23	<400	<50
	10/04/04	64.79	12.38	0.00	52.41	13,000	<3,000	--	1,000	14	300	340	2,200	640	<5	<5	32	--	--
	01/05/05	64.79	8.33	0.00	56.46	17,000	<1,000 ¹	--	230	4.6	290	610	920	290	<1.5	<1.5	13	--	--
	04/27/05	64.79	8.46	0.00	56.33	3,800	<500 ¹	--	200	2.8	75	45	620	--	--	--	--	--	--
	07/11/05	64.79	9.55	0.00	55.24	6,100	<2,000 ¹	--	340	4.7	190	180	720	--	--	--	--	--	--
	10/13/05	64.79	14.13	0.00	50.66	2,000	<500 ¹	--	68	<2	18	12	1,300	--	--	--	--	--	--
	01/04/06	64.79	8.23	0.00	56.56	5,800	<2,000 ¹	--	98	1.8	97	100	730	--	--	--	--	--	--
MW-8 Screen 5' - 25'	11/28/01	99.55	4.18	0.00	95.37	<50	60	<100	<0.5	<0.5	<0.5	<0.5	24	<5	<0.5	<0.5	4.6	<100	<5
	1/14/02	99.55	2.89	0.00	96.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	99.55	2.74	0.00	96.81	<50	89	<100	<0.5	<0.5	<0.5	<0.5	12	<5	<0.5	<0.5	2.0	<50	39
	3/19/02	99.55	2.89	0.00	96.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	99.55	3.96	0.00	95.59	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	7.3	<5	<0.5	<0.5	0.78	<50	<5
	(6/14/02)	66.43	5.89	0.00	60.54	<50	630	<100	<0.5	<0.5	<0.5	<0.5	5.0	<5	<0.5	<0.5	<0.5	<50	<5
	10/24/02	66.43	13.19	0.00	53.24	<50	230	<100	<0.5	<0.5	<0.5	<0.5	3.1	<5	<0.5	<0.5	<0.5	140	6.4
	1/23/03	66.43	2.00	0.00	64.43	<50	1,100	<100	<0.5	<0.5	<0.5	<0.5	1.0	<5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	66.43	0.96	0.00	65.47	<50	240	170	<0.5	<0.5	<0.5	<0.5	2.2	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	66.43	4.60	0.00	61.83	<50	580	700	<0.5	<0.5	<0.5	<0.5	2.1	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	66.43	10.92	0.00	55.51	60	600	510	<0.5	<0.5	<0.5	<0.5	1.1	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	66.43	0.77	0.00	65.66	<50	600	780	<0.5	<0.5	<0.5	<0.5	0.6	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	66.43	2.15	0.00	64.28	<50	600	780	<0.5	<0.5	<0.5	<0.5	0.6	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	66.43	4.80	0.00	61.63	<50	60	<100	<0.5	<0.5	<0.5	<0.5	1.0	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	66.43	9.49	0.00	56.94	<50	120	110	<0.5	<0.5	<0.5	<0.5	0.91	<5	<0.5	<0.5	<0.5	--	--

Table 1
Groundwater Elevations and Analytical Results
Dave's 76
1666 Main Street
Fortuna, California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-8 Screen 5' - 25'	01/05/05	66.43	0.98	0.00	65.45	<50	100 ¹	140 ¹	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	04/27/05	66.43	1.56	0.00	64.87	<50	<50 ¹	<100 ¹	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	07/11/05	66.43	7.58	0.00	58.85	<50	<50 ¹	<100 ¹	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	10/13/05	66.43	7.93	0.00	58.50	<50	90 ¹	140 ¹	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	01/04/06	66.43	0.50	0.00	65.93	<50	67	<100 ¹	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	(6/14/02)	66.04	9.59	0.00	56.45	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
MW-9 Screen 5' - 25'	10/24/02	66.04	13.39	0.00	52.65	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	1/23/03	66.04	8.21	0.00	57.83	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	66.04	7.43	0.00	58.61	<50	84	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	66.04	10.41	0.00	55.63	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	66.04	13.79	0.00	52.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	1/28/04	66.04	8.36	0.00	57.68	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	66.04	8.93	0.00	57.11	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	66.04	11.28	0.00	54.76	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	66.04	13.18	0.00	52.86	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	66.04	7.92	0.00	58.12	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	04/27/05	66.04	8.15	0.00	57.89	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	07/11/05	66.04	8.98	0.00	57.06	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	10/13/05	66.04	14.72	0.00	51.32	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	01/04/06	66.04	8.18	0.00	57.86	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	(6/14/02)	64.15	7.99	0.00	56.16	110	<50	<100	<0.5	<0.5	<0.5	<0.5	18	27	<0.5	<0.5	<0.5	<50	<5
	10/24/02	64.15	12.03	0.00	52.12	160	<50	--	<0.5	<0.5	<0.5	<0.5	69	55	<0.5	<0.5	<0.5	<50	<5
	1/23/03	64.15	8.37	0.00	55.78	200	<50	--	<0.5	<0.5	<0.5	<0.5	82	64	<0.5	<0.5	<0.5	150	<5
MW-10 Screen 5' - 25'	4/16/03	64.15	7.63	0.00	56.52	260	200	--	<0.5	<0.5	<0.5	<0.5	110	61	<0.5	<0.5	<0.5	<50	<5
	7/7/03	64.15	9.88	0.00	54.27	72	88	--	<0.5	<0.5	<0.5	<0.5	84	44	<0.5	<0.5	<0.5	<50	<5
	10/15/03	64.15	12.47	0.00	51.68	<50	79	--	<0.5	<0.5	<0.5	<0.5	89	32	<0.5	<0.5	<0.5	<50	<5
	1/28/04	64.15	8.32	0.00	55.83	<50	97	--	<0.5	<0.5	<0.5	<0.5	98	24	<0.5	<0.5	<0.5	<50	<5
	4/12/04	64.15	9.04	0.00	55.11	<50	96	--	<0.5	<0.5	<0.5	<0.5	82	23	<0.5	<0.5	<0.5	<50	<5
	07/06/04	64.15	10.40	0.00	53.75	<50	<50	--	<0.5	<0.5	<0.5	<0.5	100	14	<0.5	<0.5	<0.5	<50	<5
	10/04/04	64.15	11.75	0.00	52.40	<50	<50	--	<0.5	<0.5	<0.5	<0.5	84	13	<0.5	<0.5	<0.5	<50	<5
	01/05/05	64.15	8.37	0.00	55.78	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	65	7.5	<0.5	<0.5	<0.5	--	--
	04/27/05	64.15	8.53	0.00	55.62	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	94	--	--	--	--	--	--
	07/11/05	64.15	9.26	0.00	54.89	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	76	--	--	--	--	--	--
	10/13/05	64.15	12.52	0.00	51.63	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	45	--	--	--	--	--	--
	01/04/06	64.15	8.33	0.00	55.82	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	23	--	--	--	--	--	--
	(6/14/02)	64.15	9.63	0.00	54.52	<50	<50	<100	3.0	<0.5	<0.5	<0.5	76	13	<0.5	<0.5	<0.5	<100	<5
	10/24/02	64.15	12.19	0.00	51.96	<50	<50	--	1.6	<0.5	<0.5	<0.5	71	9.2	<0.5	<0.5	<0.5	<50	<5
	1/23/03	64.15	8.64	0.00	55.51	<50	57	--	<0.5	<0.5	<0.5	<0.5	11	<5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	64.15	7.90	0.00	56.25	<50	180	--	<0.5	<0.5	<0.5	<0.5	8.7	<5	<0.5	<0.5	<0.5	<50	<5
MW-11 Screen 5' - 25'	7/7/03	64.15	10.13	0.00	54.02	<50	66	--	<0.5	<0.5	<0.5	<0.5	9.7	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	64.15	12.64	0.00	51.51	<50	64	--	<0.5	<0.5	<0.5	<0.5	15	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	64.15	8.57	0.00	55.58	<50	93	--	<0.5	<0.5	<0.5	<0.5	8.4	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	64.15	9.37	0.00	54.78	<50	83	--	<0.5	<0.5	<0.5	<0.5	11	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	64.15	10.65	0.00	53.50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	13	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	64.15	11.90	0.00	52.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	28	<5	<0.5	<0.5	<0.5	0.51	<5
	01/05/05	64.15	8.70	0.00	55.45	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	9.6	<5	<0.5	<0.5	<0.5	0.68	<5
	04/27/05	64.15	8.71	0.00	55.44	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	13	--	--	--	--	--	--
	07/11/05	64.15	9.85	0.00	54.30	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	16	--	--	--	--	--	--
	10/13/05	64.15	12.42	0.00	51.73	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	17	--	--	--	--	--	--
	01/04/06	64.15	8.60	0.00	55.55	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	8.4	--	--	--	--	--	--

Table 1
Groundwater Elevations and Analytical Results

Dave's 76
1666 Main Street
Fortuna, California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHig (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-12 Screen 5' - 25'	6/14/02	60.73	6.92	0.00	53.81	<200	<50	<100	<2	<2	<2	<2	660	330	<2	<2	8.8	<500	<20
	10/24/02	60.73	8.87	0.00	51.86	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5
	1/23/03	60.73	6.15	0.00	54.58	<50	68	--	<0.5	<0.5	<0.5	<0.5	730	240	<0.5	<0.5	11	<50	<5
	4/16/03	60.73	5.71	0.00	55.02	<200	250	--	2	<2	<2	<2	730	230	<0.5	<0.5	11	<200	<20
	7/7/03	60.73	7.33	0.00	53.40	<100	79	--	<0.5	<0.5	<0.5	<0.5	500	140	<0.5	<0.5	8.1	<50	<5
	10/15/03	60.73	9.35	0.00	51.38	<50	<50	--	<0.5	<0.5	<0.5	<0.5	710	87	<0.5	<0.5	11	89	<5
	1/29/04	60.73	6.19	0.00	54.54	<50	91	--	<0.5	<0.5	<0.5	<0.5	560	<20	<1.5	<1.5	7.8	<200	<20
	4/12/04	60.73	6.84	0.00	53.89	<200	91	--	<0.5	<0.5	<0.5	<0.5	290	<5	<0.5	<0.5	4.0	<50	<5
	07/06/04	60.73	7.66	0.00	53.07	<50	<50	--	<0.5	<0.5	<0.5	<0.5	180	<5	<0.5	<0.5	<0.5	--	--
	10/04/04	60.73	8.41	0.00	52.32	<50	<50	--	<0.5	<0.5	<0.5	<0.5	440	--	--	--	--	--	--
	01/05/05	60.73	6.51	0.00	54.22	<50	<50	--	<0.5	<0.5	<0.5	<0.5	440	--	--	--	--	--	--
	04/27/05	60.73	6.48	0.00	54.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	440	--	--	--	--	--	--
	07/11/05	60.73	7.03	0.00	53.70	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	10/13/05	60.73	8.54	0.00	52.19	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	01/04/06	60.73	6.54	0.00	54.19	<50	<50	--	<0.5	<0.5	<0.5	<0.5	71	--	--	--	--	--	--
MW-13 Screen 5' - 25'	10/24/02	63.18	11.64	0.00	51.54	<50	<50	--	<0.5	<0.5	<0.5	<0.5	99	39	<0.5	<0.5	<0.5	<50	<5
	1/23/03	63.18	8.16	0.00	55.02	<50	54	--	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	63.18	7.31	0.00	55.87	<50	130	--	<0.5	<0.5	<0.5	<0.5	4.4	<0.5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	63.18	9.78	0.00	53.40	<50	<50	--	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	63.18	12.09	0.00	51.09	<50	<50	--	<0.5	<0.5	<0.5	<0.5	12	<0.5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	63.18	7.90	0.00	55.28	<50	<50	--	<0.5	<0.5	<0.5	<0.5	5.2	<0.5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	63.18	8.97	0.00	54.21	<50	<50	--	<0.5	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	63.18	10.13	0.00	53.05	<50	<50	--	<0.5	<0.5	<0.5	<0.5	7.3	<0.5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	63.18	11.38	0.00	51.80	<50	<50	--	<0.5	<0.5	<0.5	<0.5	15	<0.5	<0.5	<0.5	<0.5	--	--
	01/05/05	63.18	8.20	0.00	54.98	<50	<50	--	<0.5	<0.5	<0.5	<0.5	4.0	<0.5	<0.5	<0.5	<0.5	--	--
	04/27/05	63.18	8.36	0.00	54.82	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.3	--	--	--	--	--	--
	07/11/05	63.18	9.35	0.00	53.83	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.6	--	--	--	--	--	--
	10/13/05	63.18	11.44	0.00	51.74	<50	<50	--	<0.5	<0.5	<0.5	<0.5	3.7	--	--	--	--	--	--
	01/04/06	63.18	7.91	0.00	55.27	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.1	--	--	--	--	--	--
	10/24/02	60.64	9.04	0.00	51.60	<100	<50	--	<1	<1	<1	<1	550	230	<1	<1	6.7	<100	<10
	1/23/03	60.64	8.72	0.00	51.92	<50	<50	--	<1	<1	<1	<1	250	100	<0.5	<0.5	2.7	<50	<5
	4/16/03	60.64	4.91	0.00	55.73	<50	130	--	<0.5	<0.5	<0.5	<0.5	590	230	<0.5	<0.5	6.8	<50	<5
	7/7/03	60.64	7.33	0.00	53.31	<100	54	--	<1	<1	<1	<1	580	210	<1	<1	6.4	<50	<5
	10/15/03	60.64	9.61	0.00	51.03	<200	72	--	<1.5	<1.5	<1.5	<1.5	700	270	<1.5	<1.5	9.6	<200	<20
	1/28/04	60.64	5.47	0.00	55.17	<100	110	--	<1	<1	<1	<1	520	190	<1	<1	6.1	<100	<10
	4/12/04	60.64	6.53	0.00	54.11	<50	87	--	<0.5	<0.5	<0.5	<0.5	240	76	<0.5	<0.5	2.0	<50	<5
	07/06/04	60.64	7.68	0.00	52.96	<50	<50	--	<0.5	<0.5	<0.5	<0.5	510	180	<0.5	<0.5	6.4	<50	<5
	10/04/04	60.64	8.90	0.00	51.74	<100	<50	--	<1	<1	<1	<1	480	<10	<1	<1	6.1	--	--
	01/05/05	60.64	5.79	0.00	54.85	<50	<50	--	<0.5	<0.5	<0.5	<0.5	160	<5	<0.5	<0.5	2.8	--	--
	04/27/05	60.64	5.98	0.00	54.66	<50	<50	--	<0.5	<0.5	<0.5	<0.5	320	--	--	--	--	--	--
	07/11/05	60.64	6.93	0.00	53.71	<50	<50	--	<0.5	<0.5	<0.5	<0.5	290	--	--	--	--	--	--
	10/13/05	60.64	8.90	0.00	51.74	<50	<50	--	<0.5	<0.5	<0.5	<0.5	280	--	--	--	--	--	--
	01/04/06	60.64	5.48	0.00	55.16	<50	<50	--	<0.5	<0.5	<0.5	<0.5	280	--	--	--	--	--	--

Table 1
Groundwater Elevations and Analytical Results
Dave's 76
1666 Main Street
Fortuna, California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	NTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-15 Screen 5' - 25'	06/10/03	61.56	8.34	0.00	53.22	<500	92	--	<5	<5	<5	<5	1,700	570	<5	<5	14	<500	<50
	10/15/03	61.56	10.64	0.00	50.92	<250	120	--	<2.5	<2.5	<2.5	<2.5	1,500	480	<2.5	<2.5	8.2	<250	<25
	01/29/04	61.56	6.30	0.00	55.26	<250	110	--	<2.5	<2.5	<2.5	<2.5	1,400	380	<2.5	<2.5	12	<250	<25
	04/12/04	61.56	7.48	0.00	54.08	<300	56	--	<3	<3	<3	<3	1,200	360	<3	<3	9.8	<300	<30
	07/06/04	61.56	8.67	0.00	52.89	<300	<50	--	<2	<2	<2	<2	750	280	<2	<2	7.5	<200	<20
	10/04/04	61.56	9.99	0.00	51.57	<300	<50	--	<1.5	<1.5	<1.5	<1.5	660	180	<1.5	<1.5	6.4	--	--
	01/05/05	61.56	6.61	0.00	54.95	<50	<50	--	<0.5	<0.5	<0.5	<0.5	500	180	<0.5	<0.5	6.0	--	--
	04/27/05	61.56	6.85	0.00	54.71	<50	<50	--	<0.5	<0.5	<0.5	<0.5	600	--	--	--	--	--	--
	07/11/05	61.56	7.90	0.00	53.66	<50	<50	--	<0.5	<0.5	<0.5	<0.5	530	--	--	--	--	--	--
	10/13/05	61.56	9.91	0.00	51.65	<50	<50	--	<0.5	<0.5	<0.5	<0.5	320	--	--	--	--	--	--
MW-16 Screen 5' - 25'	01/04/06	61.56	6.22	0.00	55.34	<50	<50	--	<0.5	<0.5	<0.5	<0.5	410	--	--	--	--	--	--
	06/10/03	60.87	7.67	0.00	53.20	<50	68	--	<0.5	<0.5	<0.5	<0.5	92	38	<0.5	<0.5	0.6	<50	<5
	10/15/03	60.87	9.98	0.00	50.89	<50	<50	--	<0.5	<0.5	<0.5	<0.5	170	68	<0.5	<0.5	1.9	<50	<5
	01/28/04	60.87	5.63	0.00	55.24	<50	<50	--	<0.5	<0.5	<0.5	<0.5	180	78	<0.5	<0.5	2.0	<50	<5
	04/12/04	60.87	6.83	0.00	54.04	<50	71	--	<0.5	<0.5	<0.5	<0.5	97	47	<0.5	<0.5	1.2	<50	<5
	07/06/04	60.87	8.02	0.00	52.85	<50	<50	--	<0.5	<0.5	<0.5	<0.5	180	86	<0.5	<0.5	2.2	<50	<5
	10/04/04	60.87	9.31	0.00	51.56	<50	<50	--	<0.5	<0.5	<0.5	<0.5	320	77	<0.5	<0.5	3.5	--	--
	01/05/05	60.87	5.98	0.00	54.89	<50	<50	--	<0.5	<0.5	<0.5	<0.5	150	<5	<0.5	<0.5	2.0	--	--
	04/27/05	60.87	6.19	0.00	54.68	<50	<50	--	<0.5	<0.5	<0.5	<0.5	190	--	--	--	--	--	--
	07/11/05	60.87	7.19	0.00	53.68	<50	<50	--	<0.5	<0.5	<0.5	<0.5	340	--	--	--	--	--	--
MW-17 Screen 5' - 25'	10/13/05	60.87	9.24	0.00	51.63	<50	<50	--	<0.5	<0.5	<0.5	<0.5	320	--	--	--	--	--	--
	01/04/06	60.87	5.62	0.00	55.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	330	--	--	--	--	--	--
	06/10/03	60.31	6.38	0.00	53.93	<50	71	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	60.31	8.38	0.00	51.93	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	01/28/04	60.31	5.19	0.00	55.12	<50	59	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	04/12/04	60.31	5.46	0.00	54.85	<50	65	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	60.31	6.37	0.00	53.94	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	60.31	8.30	0.00	52.01	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	60.31	4.19	0.00	56.12	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	04/27/05	60.31	4.02	0.00	56.29	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
MW-18 Screen 5' - 25'	07/11/05	60.31	7.32	0.00	52.99	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	10/13/05	60.31	9.99	0.00	50.32	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	01/04/06	60.31	5.43	0.00	54.88	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--

Table 1
Groundwater Elevations and Analytical Results

Dave's 76
1666 Main Street
Fortuna, California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-18	06/10/03	60.36	7.27	0.00	53.09	<50	70	--	<0.5	<0.5	<0.5	<0.5	120	<5	<0.5	<0.5	<0.5	<50	<5
Screen	10/15/03	60.36	9.56	0.00	50.80	<50	<50	--	<0.5	<0.5	<0.5	<0.5	71	37	<0.5	<0.5	0.78	<50	<5
5' - 25'	01/28/04	60.36	5.11	0.00	55.25	<50	57	--	<0.5	<0.5	<0.5	<0.5	290	130	<0.5	<0.5	2.4	<50	<5
	04/12/04	60.36	6.36	0.00	54.00	<50	<50	--	<0.5	<0.5	<0.5	<0.5	280	150	<0.5	<0.5	2.6	73	<5
	07/06/04	60.36	7.59	0.00	52.77	<50	<50	--	<0.5	<0.5	<0.5	<0.5	310	70	<0.5	<0.5	2.9	<50	<5
	10/04/04	60.36	8.94	0.00	51.42	<50	<50	--	<0.5	<0.5	<0.5	<0.5	300	<5	<0.5	<0.5	2.7	--	--
	01/05/05	60.36	5.44	0.00	54.92	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	320	<5	<0.5	<0.5	4.4	--	--
	04/27/05	60.36	5.74	0.00	54.62	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	380	--	--	--	--	--	--
	07/11/05	60.36	6.75	0.00	53.61	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	470	--	--	--	--	--	--
	10/13/05	60.36	8.81	0.00	51.55	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	380	--	--	--	--	--	--
	01/04/06	60.36	5.06	0.00	55.30	<50	<50 ¹	--	<0.5	<0.5	<0.5	<0.5	370	--	--	--	--	--	--
					MCL	--	--	--	1	150	300	1,750	5						
					Taste & odor threshold	5	100	--	--	42	29	17	5						
					NCRWQCB Cleanup Goals	<50	100	--	0.50	42	29	17	5						

Notes:

TOC: Top of well casing referenced to mean sea level (msl).

DTW: Depth to water as referenced to top of casing.

SPH: Separate phase hydrocarbon on top of groundwater.

GWE: Groundwater elevation as referenced to benchmark.

µg/l = parts per billion

MCL: maximum contaminant level, a drinking water standard

TPHg: Total Petroleum Hydrocarbons as Gasoline by EPA Method 5030/8260B

TPHd: Total Petroleum Hydrocarbons as Diesel by EPA Method 3510/8015M

TPHmo: Total Petroleum Hydrocarbons as Motor Oil EPA Method 3510/8015M

--: Not analyzed, available, or applicable

NCRWQCB: North Coast Regional Water Quality Control Board

MW: Monitoring Well

1. Laboratory analysis for diesel and/or motor oil was performed using silica gel cleanup

Benzene by EPA Method 8260B

Toluene by EPA Method 8260B

Ethylbenzene by EPA Method 8260B

Xylenes by EPA Method 8260B

MTBE: Methyl tertiary butyl ether by EPA method 8260B

TBA: Tertiary butyl alcohol by EPA method 8260B

DIPE: Di-isopropyl ether by EPA method 8260B

ETBE: Ethyl tertiary butyl ether by EPA method 8260B

TAME: Tertiary amyl methyl ether by EPA method 8260B

Methanol by Method 8260B

Ethanol by Method 8260B

Sample date in parentheses indicates new well survey per geotracker (NGS(PID#AC9252)"HPGN D CA 01 PB" Singley Rd)

Table 2
Monitoring Well Construction Details

Dave's 76
1666 Main Street
Fortuna , California
Project No. NC - 20

Monitoring Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)
MW-1 (Destroyed)	2/14/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-2 (Destroyed)	2/14/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-3	2/14/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-4 (Destroyed)	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-5	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-6	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-7	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-8	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-9	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-10	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-11	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-12	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-13	10/11/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-14	10/11/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-15	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-16	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-17	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-18	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
EX-1	10/04	Blue Rock	4	19	0-7	7-19	installed in gravel fill of remedial excavation			

Table 3
GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS

Dave's 76
1666 Main St.
Fortuna, California
Blue Rock Project # NC-20

Sample and Date	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
Influent (EX-1)							
9/6/05	180	--	9.6	0.8	5.0	1.8	35
10/3/05	570	<200	22	1.4	7.1	41	350
11/8/05	470	<200	15	0.9	6.9	32	310
12/8/05	410	<200	15	1.5	3.1	21	260
1/4/06	130	<50	<0.9	<0.9	11	<0.9	520
Effluent							
9/6/05	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0
10/3/05	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0
11/8/05	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/8/05	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
1/4/06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Effluent #1							
1/4/06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Notes:

TPHg Total Petroleum Hydrocarbons as gasoline by EPA method 5030/8260B
 BTEX Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA Method 8260B
 MTBE Methyl tert-butyl ether by EPA Method 8260B
 µg/L Micrograms per liter
 Effluent #1 Sample taken after first carbon vessel to monitor breakthrough

Table 4
CUMULATIVE HYDROCARBON RECOVERY FROM GROUNDWATER

Dave's 76
1666 Main St.
Fortuna, California
Blue Rock Project # NC-20

Date	A Cumulative Discharge (gal)	B Discharge for Interval (gal)	C Conversion factor (3.785 L/gal)	D TPH (µg/L)	E Conversion factor (1 lbs / 453,600,000 µg)	F TPH recovered for period (lbs)	G Cumulative TPH recovered (lbs)
9/6/05	2,230	2,230	3.875	180	0.00000002205	0.0034	0.0034
10/3/05	25,470	23,240	3.875	570	0.00000002205	0.11	0.12
11/8/05	58,910	33,440	3.875	470	0.00000002205	0.13	0.25
12/8/05	98,610	39,700	3.875	410	0.00000002205	0.14	0.39
1/4/06	149,380	50,770	3.875	130	0.00000002205	0.056	0.45
Total Mass of Hydrocarbons Recovered (in lbs)							0.45
Total Volume of Hydrocarbons Recovered (in gals) (assuming gasoline density of 6.08 lbs/gal)							0.07

Notes

Initial startup of system - September 6, 2005

- A: Cumulative volume of groundwater recovered and discharged (gal), flow from EX-1
- B: Volume of groundwater recovered and discharged for period (gal)
- C: Conversion factor of 3.875 liter / 1 gal
- D: TPH concentration (µg/L) of groundwater flow from EX-1
- E: Conversion factor of 1 lbs / 453,600,00 micrograms
- F: TPH recovered for period (lbs) = B (gal) * C (L/gal) * D (µg/L) * E (lbs/µg)
- G: Cumulative TPH recovered for period (lbs)

Table 5
Groundwater Extraction System Discharge Air Sample Analytical Results
 Dave's 76
 1666 Main St.
 Fortuna, CA
 ATC Permit # 472
 Blue Rock Project Number NC-20

Sample I.D.	Sample Date	TPHg mg/m3	Benzene mg/m3	Toluene mg/m3	Ethylbenzene mg/m3	Xylenes mg/m3	MTBE mg/m3
<u>Effluent Vent</u>							
Eff 9/6/05	9/6/05	<20	<0.20	<0.20	<0.20	<0.20	<0.20
Eff 9/7/05	9/7/05	<20	<0.20	<0.20	<0.20	<0.20	<0.20
Disch. Effluent	1/9/06	<20	<0.20	<0.20	<0.20	<0.20	<0.20

Notes:

Influent

mg/m3

<#.#

TPHg

BTEX

MTBE

Air sample collected from vent for water discharge

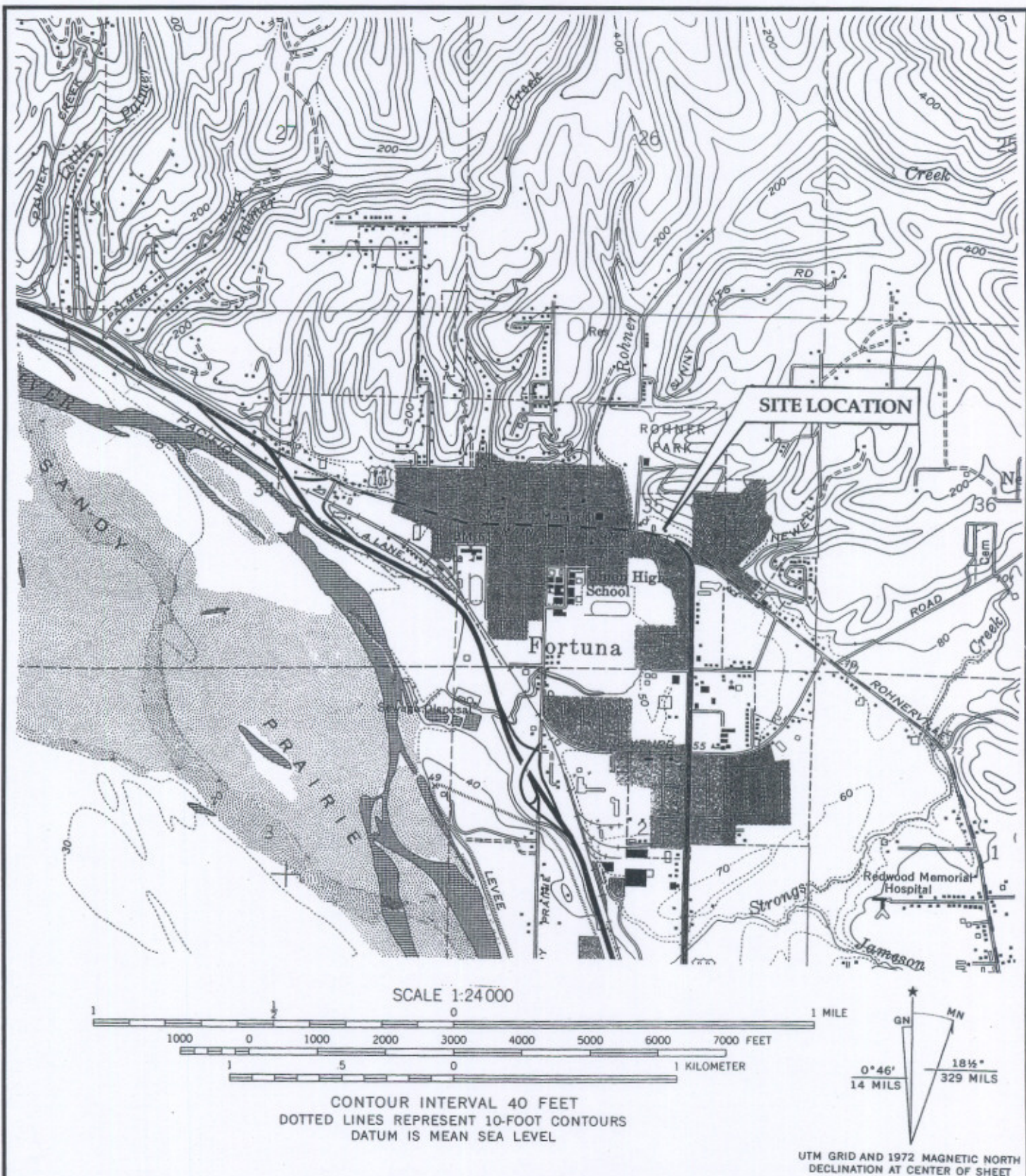
Volume of analyte in air sample - milligrams per cubic meter

Compound not detected at or below the reported laboratory detection limit

Total Petroleum Hydrocarbons as gasoline by EPA Method 8260B

Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8260B

Methyl Tertiary Butyl Ether by EPA Method 8260B



Site Location Map

Dave's 76
 1666 Main Street
 Fortuna, California

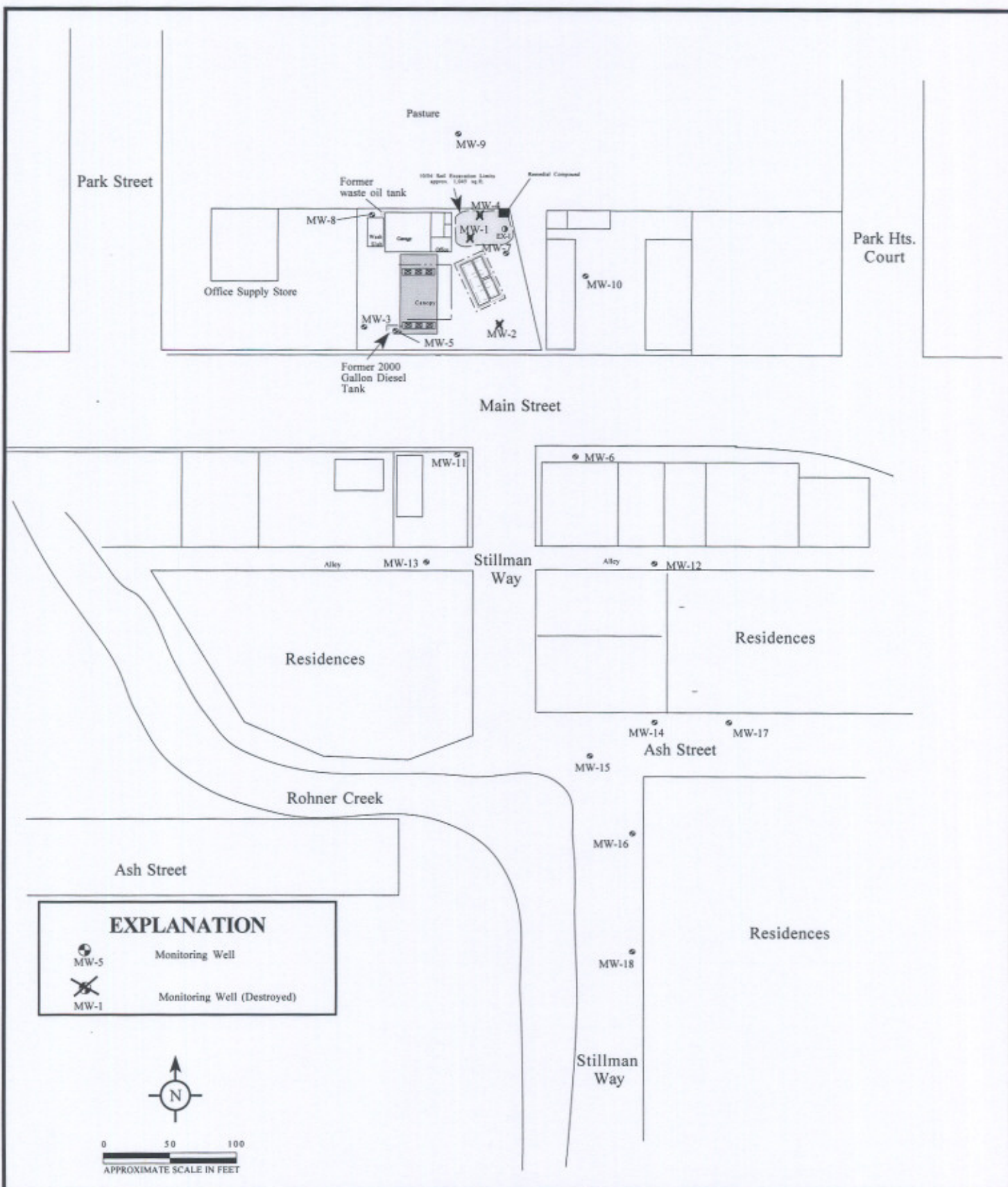


**BLUE ROCK
 ENVIRONMENTAL, INC.**

Project No.
 NC-20

Date
 1/06

Figure
 1



Site Plan
 Dave's 76
 1666 Main Street
 Fortuna, California

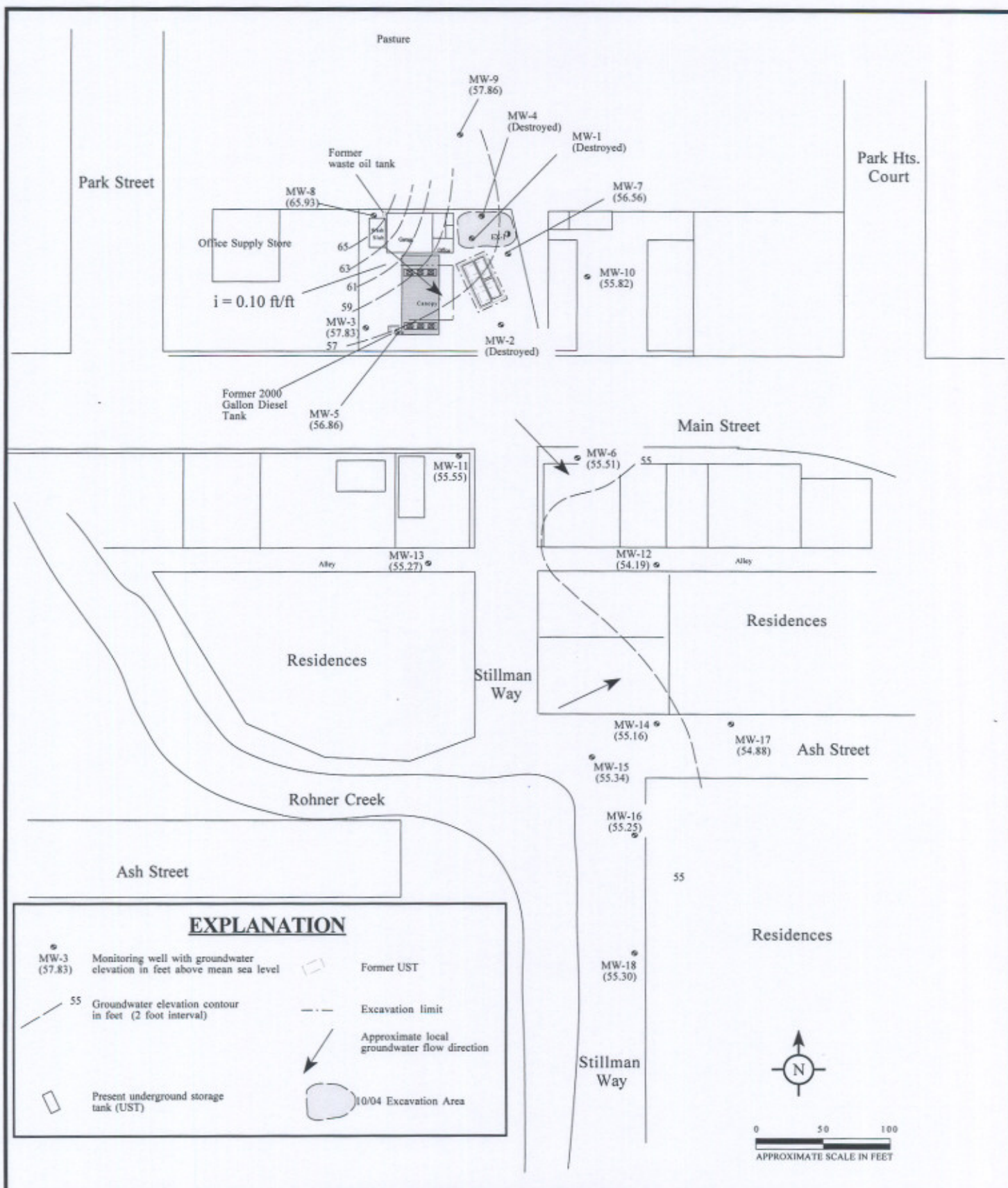


**BLUE ROCK
 ENVIRONMENTAL, INC.**

Project No.
 NC-20

Date
 1/06

Figure
 2



Groundwater Elevations and Gradient 1/4/06

Dave's 76
1666 Main Street
Fortuna, California

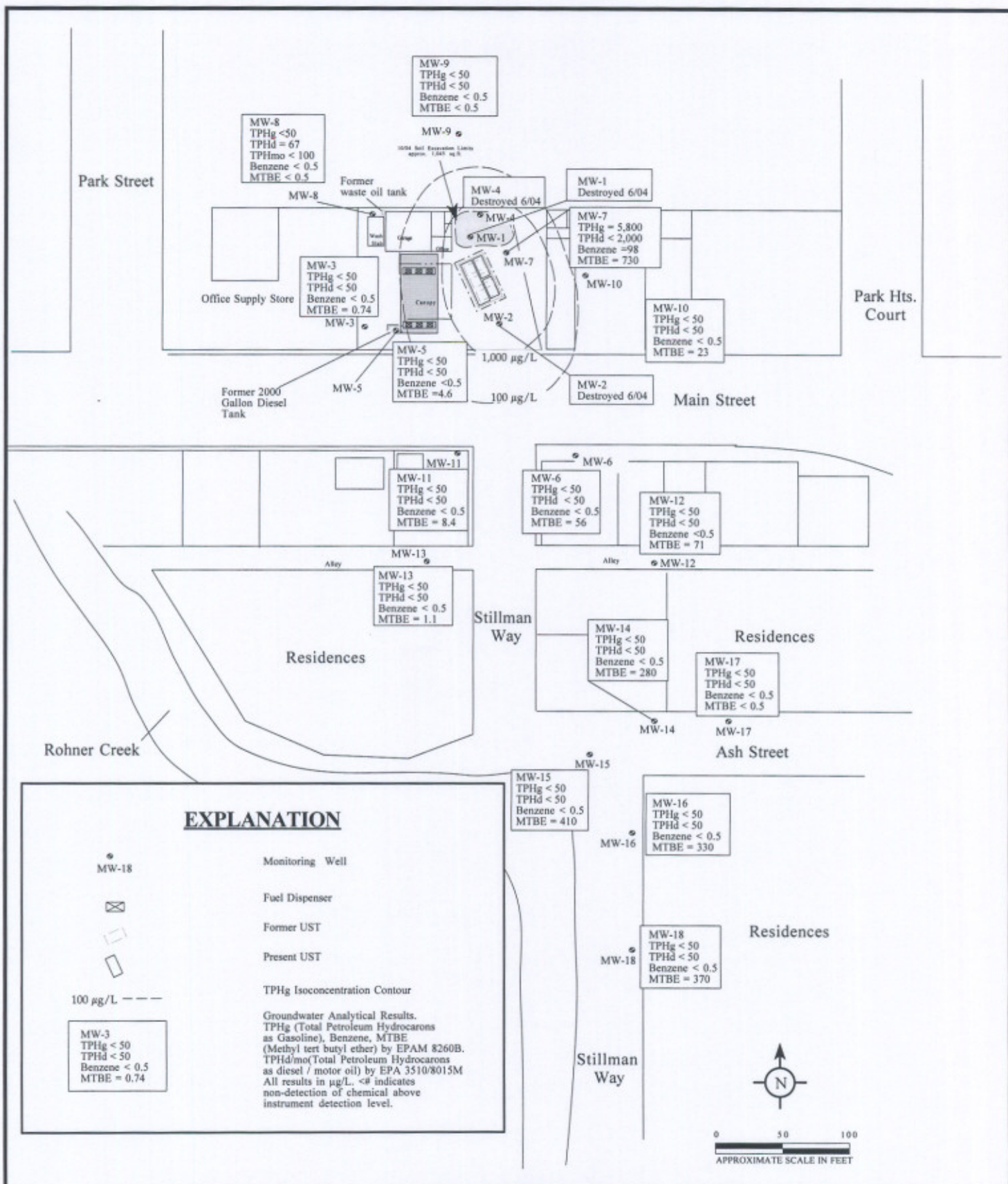


**BLUE ROCK
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Project No.
NC-20

Date
1/06

Figure
3



Dissolved-Phase TPHg Distribution 1/4/06

Dave's 76
1666 Main Street
Fortuna, California

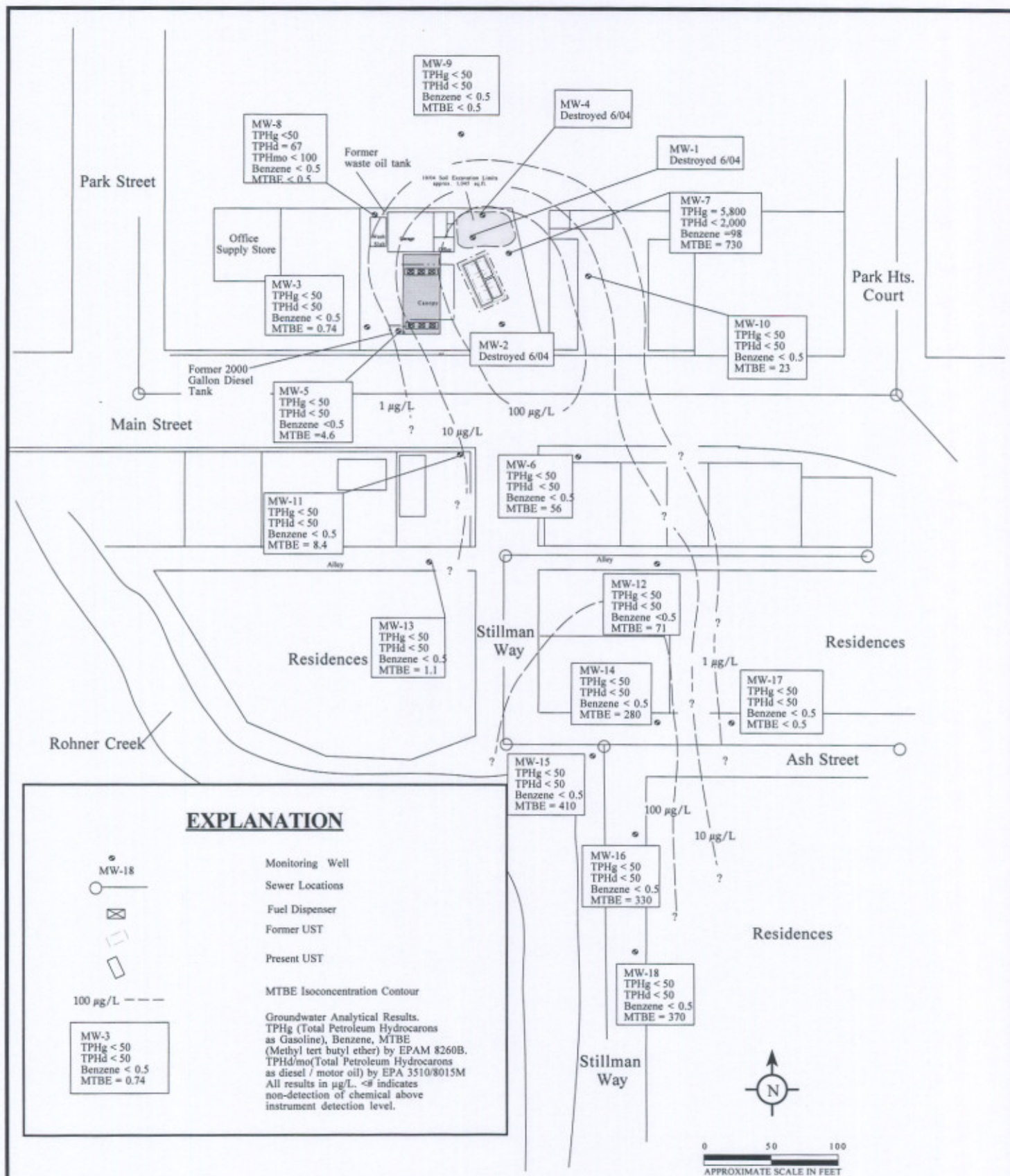


BLUE ROCK
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Project No.
NC-20

Date
1/06

Figure
4



Dissolved-Phase MTBE Distribution 1/4/06

Dave's 76
1666 Main Street
Fortuna, California

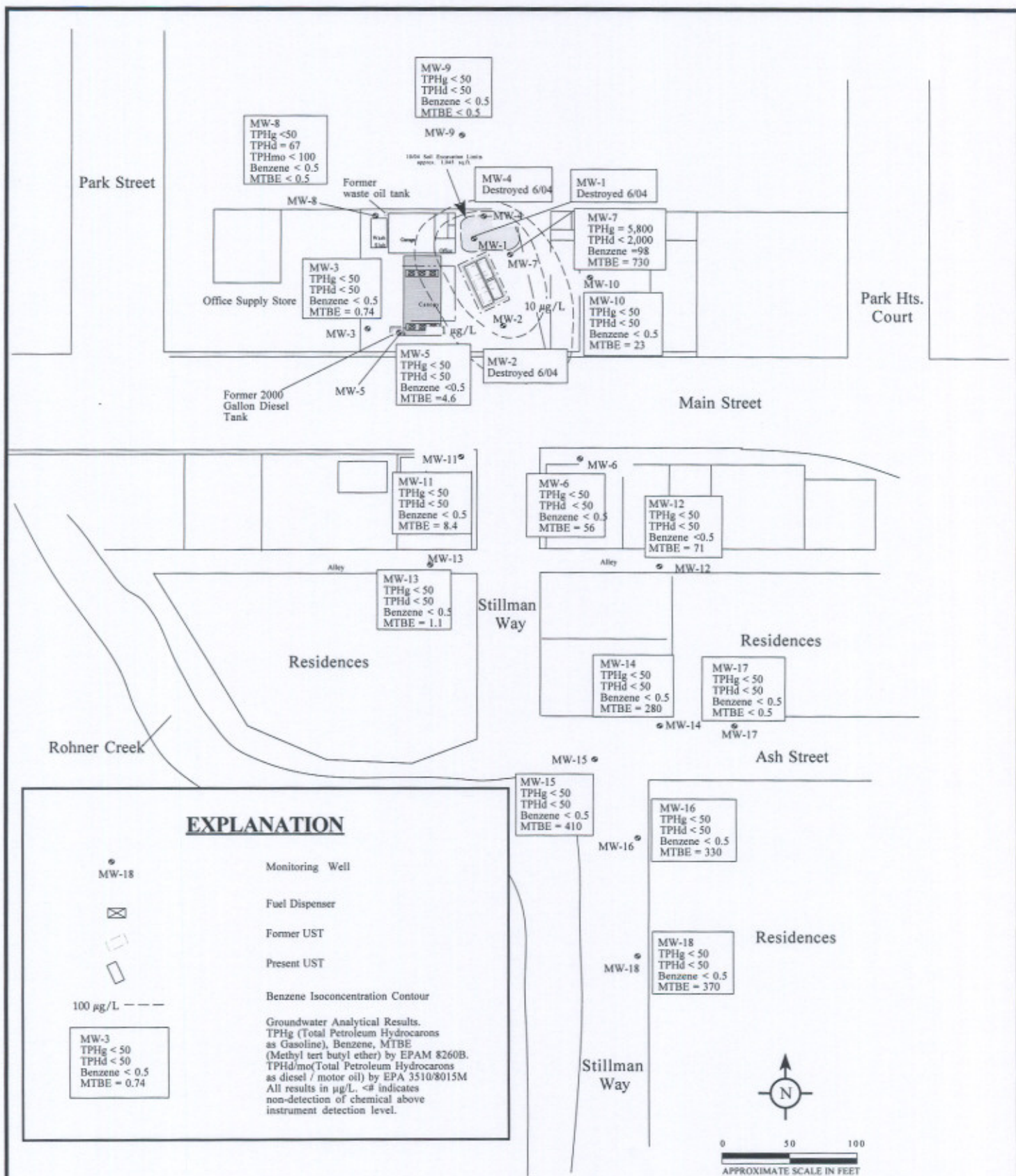


BLUE ROCK
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Project No.
NC-20

Date
1/06

Figure
5



Dissolved-Phase Benzene Distribution 1/4/06

Dave's 76
1666 Main Street
Fortuna, California

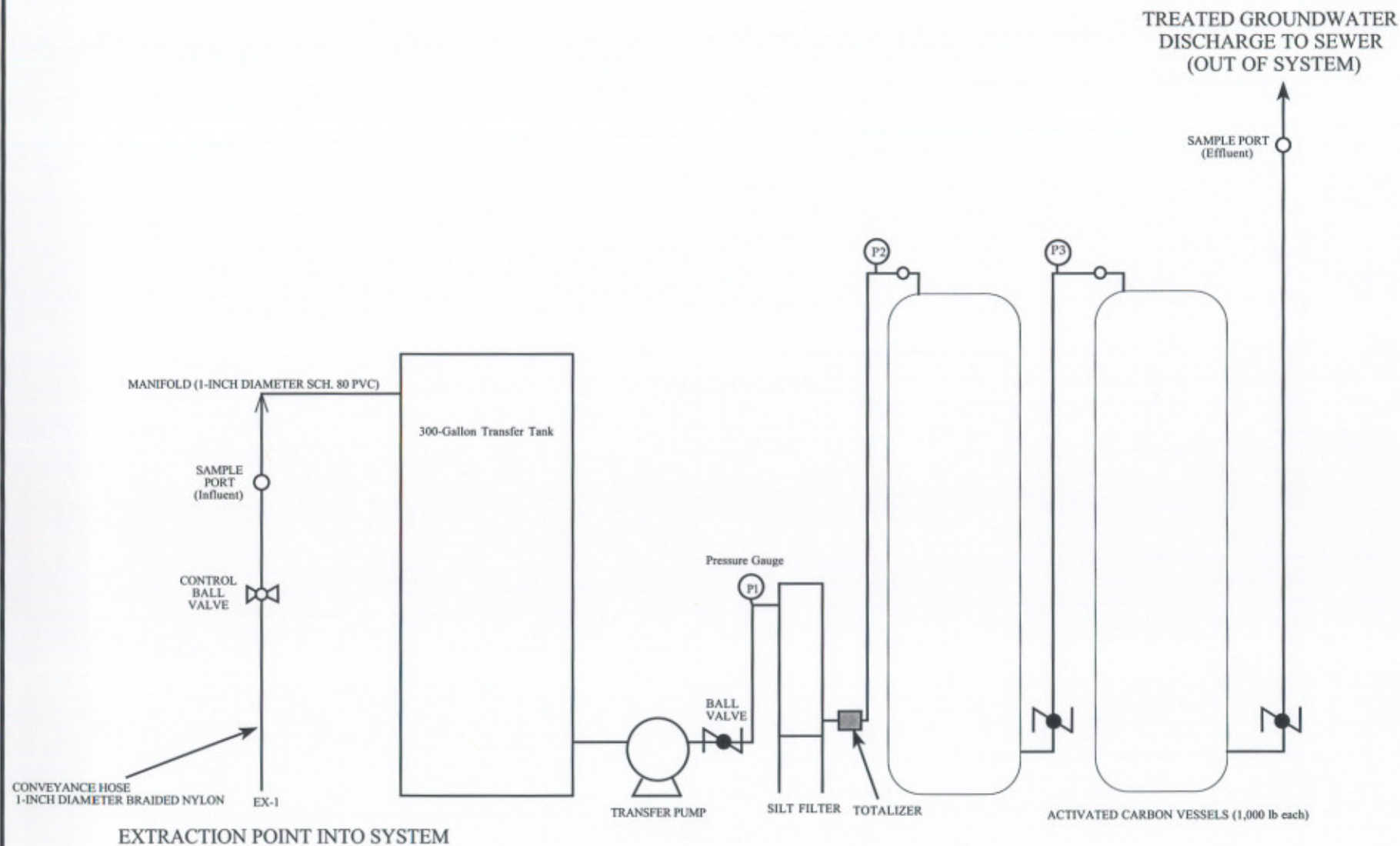


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Project No.
NC-20

Date
1/06

Figure
6



Groundwater Extraction System Schematic

Dave's 76
1666 Main Street
Fortuna, California



BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
NC-20

Figure Date
1/06

Figure
7

GAGING DATA/PURGE CALCULATIONS

Job No.: NC-20 Location: 1666 Main St. Fortuna Date: 1/4/06 Tech(s): JL

WELL NO.	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES
MW-3	2"	19.84	8.41	11.43	1.82	5.46	0	
MW-5	1	22.29	8.51	13.78	2.20	6.60	↓	
MW-6		21.96	6.48	15.48	2.47	7.41	↓	
MW-7		24.26	8.23	16.03	2.56	7.68	Sheen	
MW-8		24.43	0.50	23.93	3.82	11.46	0	
MW-9		24.21	8.18	16.03	2.56	7.68	↓	
MW-10		23.56	8.33	15.23	2.43	7.29	↓	
MW-11		24.18	8.60	15.58	2.49	7.47	↓	
MW-12		24.02	6.54	17.48	2.79	8.37	↓	
MW-13		23.42	7.91	15.51	2.48	7.44	↓	
MW-14		23.53	5.48	18.05	2.88	8.64	↓	
MW-15		23.81	6.22	17.59	2.81	8.43	↓	
MW-16		20.38	5.62	14.76	2.36	7.08	↓	
MW-17		24.95	5.43	19.52	3.12	9.36	↓	
MW-18	↓	19.18	5.06	14.12	2.25	6.75	↓	

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,
well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK
ENVIRONMENTAL, INC.

PURGING DATA

SHEET 1 OF 5

Job No.: NC-20 Location: 1666 Main St. Date: 1/4/06 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-3			---	---	---	Sample for:
Calc. purge	12:35	0.25	283	65.1	5.71	TPHg TPHd 8260
volume	12:40	2.75	267	65.0	5.69	BTEX MTBE Metals
5.46	12:45	5.50	259	64.9	5.72	Purging Method:
						(PVC bailer) / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear/mod/mod/no sheen/no odor						Dedicated / Disposable bailer
						Sample at: 12:50

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-5			---	---	---	Sample for:
Calc. purge	13:00	0.25	570	63.8	6.48	TPHg TPHd 8260
volume	13:05	3.25	584	63.6	6.52	BTEX MTBE Metals
6.60	13:10	6.60	585	63.4	6.62	Purging Method:
						(PVC bailer) / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear/heavy/mod/no sheen/no odor						Dedicated / Disposable bailer
						Sample at: 13:15

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-6			---	---	---	Sample for:
Calc. purge	13:20	0.25	744	59.3	6.06	TPHg TPHd 8260
volume	13:25	3.75	626	61.3	6.04	BTEX MTBE Metals
7.41	13:30	7.40	576	61.3	6.02	Purging Method:
						(PVC bailer) / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear/mod/mod/no sheen/no odor						Dedicated / Disposable bailer
						Sample at: 13:35

PURGING DATA

SHEET 2 OF 5

Job No.: NC-20 Location: 1666 Main St. Date: 1/4/06 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-7			---	---	---	Sample for:
Calc. purge	12:10	0.25	387	61.0	5.75	TPHg TPHd 8260
volume	12:15	3.75	396	61.6	5.76	BTEX MTBE Metals
7.68	12:20	7.70	373	61.5	5.84	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / mod. / ^{no} sheen / ^{no} odor						Dedicated / Disposable bailer
						Sample at: 12:25

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-8			---	---	---	Sample for: TPH ^{mo}
Calc. purge	11:45	0.25	171	56.0	5.61	TPHg TPHd 8260
volume	11:50	3.50	169	56.7	5.49	BTEX MTBE Metals
11.46	11:55	7.50	171	56.7	5.50	Purging Method:
	11:50	171	56.8	5.52		PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / good / ^{no} sheen / ^{no} odor						Dedicated / Disposable bailer
						Sample at: 12:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-9			---	---	---	Sample for:
Calc. purge	11:25	0.25	258	60.3	6.32	TPHg TPHd 8260
volume	11:30	3.75	231	59.8	6.15	BTEX MTBE Metals
7.68	11:35	7.65	230	59.3	6.18	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / mod. / ^{no} sheen / ^{no} odor						Dedicated / Disposable bailer
						Sample at: 11:40

PURGING DATA

SHEET 3 OF 5

Job No.: NC-20

Location: 1666 Main St.

Date:

Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH			
MW-10			---	---	---	Sample for:		
Calc. purge	13:45	0.25	329	62.9	6.08	TPHg	TPHd	8260
volume	13:50	3.50	322	63.8	5.96	BTEX	MTBE	Metals
7.29	13:55	7.30	307	63.9	5.98	Purging Method:		
						PVC bailer / Pump		
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:		
clear/mod/mod/no sheen/no odor						Dedicated / Disposable bailer		

Sample at: 14:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH			
MW-11			---	---	---	Sample for:		
Calc. purge	14:15	0.25	513	63.3	6.02	TPHg	TPHd	8260
volume	14:20	3.75	501	64.0	6.02	BTEX	MTBE	Metals
7.47	14:25	7.50	478	64.1	6.02	Purging Method:		
						PVC bailer / Pump		
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:		
clear/mod/mod/no sheen/no odor						Dedicated / Disposable bailer		

Sample at: 14:30

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH			
MW-12			---	---	---	Sample for:		
Calc. purge	14:40	0.25	396	63.8	6.12	TPHg	TPHd	8260
volume	14:45	4.25	387	63.4	6.09	BTEX	MTBE	Metals
8.37	14:50	8.35	378	62.8	6.13	Purging Method:		
						PVC bailer / Pump		
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:		
clear/mod/good/no sheen/no odor						Dedicated / Disposable bailer		

Sample at: 14:55

PURGING DATA

SHEET 4 OF 5

Job No.: NC-20 Location: 1666 Main St. Date: 1/4/06 Tech: J.L.

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-13			---	---	---	Sample for:
Calc. purge	15:10	0.25	251	60.4	4.68	TPHg TPHd 8260
volume	15:15	3.75	231	61.9	4.86	BTEX MTBE Metals
7.44	15:20	7.45	223	61.9	4.48	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod / mod / no sheen / no odor						Dedicated / Disposable bailer
						Sample at: 15:25

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-14			---	---	---	Sample for:
Calc. purge	8:35	0.25	361	58.3	5.86	TPHg TPHd 8260
volume	8:40	4.25	529	61.2	5.91	BTEX MTBE Metals
8.64	8:45	8.65	456	61.5	5.96	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod / mod / no sheen / no odor						Dedicated / Disposable bailer
						Sample at: 8:50 1/5/06

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-15			---	---	---	Sample for:
Calc. purge	9:05	0.25	332	57.8	5.73	TPHg TPHd 8260
volume	9:10	4.25	304	60.4	5.68	BTEX MTBE Metals
8.43	9:15	8.45	296	60.5	5.68	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod / mod / no sheen / no odor						Dedicated / Disposable bailer
						Sample at: 9:20 1/5/06

PURGING DATA

SHEET 5 OF 5

Job No.: NC-20 Location: 1666 Main St. Date: 1/4/06 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-16			---	---	---	Sample for:
Calc. purge	9:35	0.25	530	58.6	5.58	TPHg TPHd 8260
volume	9:40	3.50	446	60.6	5.73	BTEX MTBE Metals
7.08	9:45	7.05	421	60.7	5.72	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear/mod./mod./ ^{no} sheen/odor						Dedicated / Disposable bailer

Sample at: 9:50 1/5/06

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-17			---	---	---	Sample for:
Calc. purge	10:05	0.25	463	60.7	8.20	TPHg TPHd 8260
volume	10:10	4.50	428	63.1	6.60	BTEX MTBE Metals
9.36	10:15	9.35	436	63.2	5.53	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear/mod./mod./ ^{no} sheen/ ^{no} odor						Dedicated / Disposable bailer

Sample at: 10:20 1/5/06

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-18			---	---	---	Sample for:
Calc. purge	10:35	0.25	451	59.3	5.07	TPHg TPHd 8260
volume	10:40	3.50	407	60.0	5.32	BTEX MTBE Metals
6.75	10:45	6.75	376	60.2	5.42	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear/mod./good/ ^{no} sheen/ ^{no} odor						Dedicated / Disposable bailer

Sample at: 10:50 1/5/06



Report Number : 46865

Date : 11/16/2005

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 2 Water Samples
Project Name : Daves 76
Project Number : NC-20

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 46865

Date : 11/16/2005

Subject : 2 Water Samples
Project Name : Daves 76
Project Number : NC-20

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample Inf 11/8/05.

Approved By: _____


Joe Kiff



Report Number : 46865

Date : 11/16/2005

Project Name : Daves 76

Project Number : NC-20

Sample : Inf 11/8/05

Matrix : Water

Lab Number : 46865-01

Sample Date : 11/8/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	15	0.50	ug/L	EPA 8260B	11/14/2005
Toluene	0.86	0.50	ug/L	EPA 8260B	11/14/2005
Ethylbenzene	6.9	0.50	ug/L	EPA 8260B	11/14/2005
Total Xylenes	32	0.50	ug/L	EPA 8260B	11/14/2005
Methyl-t-butyl ether (MTBE)	310	0.50	ug/L	EPA 8260B	11/14/2005
TPH as Gasoline	470	50	ug/L	EPA 8260B	11/14/2005
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	11/14/2005
4-Bromofluorobenzene (Surr)	94.4		% Recovery	EPA 8260B	11/14/2005
TPH as Diesel	< 200	200	ug/L	M EPA 8015	11/12/2005
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	11/12/2005

Sample : Eff 11/8/05

Matrix : Water

Lab Number : 46865-02

Sample Date : 11/8/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/14/2005
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	11/14/2005
4-Bromofluorobenzene (Surr)	93.3		% Recovery	EPA 8260B	11/14/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	11/14/2005
Octacosane (Diesel Surrogate)	106		% Recovery	M EPA 8015	11/14/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

Project Name : **Daves 76**

Project Number : **NC-20**

Report Number : 46865

Date : 11/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	11/12/2005
Octacosane (Diesel Surrogate)	99.6		%	M EPA 8015	11/12/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/14/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/14/2005
Toluene - d8 (Surr)	98.1		%	EPA 8260B	11/14/2005
4-Bromofluorobenzene (Surr)	92.3		%	EPA 8260B	11/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 46865

Date : 11/16/2005


Project Name : **Daves 76**

Project Number : **NC-20**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	929	924	ug/L	M EPA 8015	11/12/05	92.9	92.4	0.464	70-130	25
Benzene	46890-01	<0.50	39.8	39.8	40.5	40.5	ug/L	EPA 8260B	11/14/05	102	102	0.195	70-130	25
Toluene	46890-01	<0.50	39.8	39.8	39.8	40.0	ug/L	EPA 8260B	11/14/05	100	101	0.680	70-130	25
Tert-Butanol	46890-01	<5.0	199	199	181	187	ug/L	EPA 8260B	11/14/05	91.0	94.0	3.24	70-130	25
Methyl-t-Butyl Ether	46890-01	2.4	39.8	39.8	38.3	38.0	ug/L	EPA 8260B	11/14/05	90.1	89.5	0.604	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 46865

Date : 11/16/2005

Project Name : **Daves 76**

Project Number : **NC-20**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	11/14/05	102	70-130
Toluene	40.0	ug/L	EPA 8260B	11/14/05	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/14/05	94.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/14/05	91.9	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff





2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No.

46865

Page ____ of ____

Project Contact (Hardcopy or PDF To):

Andrew Lolicero

California EDF Report?

☐ Yes

☒ No

Chain-of-Custody Record and Analysis Request

Company / Address: Blue Rock Env.

535 3rd St. #100 Brea CA 92621

Sampling Company Log Code:

Phone #:

707 441 1934

Fax #:

707 441 1949

Global ID:

Project #:

NC-20

P.O. #:

EDF Deliverable To (Email Address):

Project Name:

Daves 76

Sampler Signature:

A. J. [Signature]

Project Address:

1606 Main St.
Bartola, CA

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

40 ml VOA

Sleeve

Poly

Glass

Tedlar

HCl

HNO₃

None

Water

Soil

Air

MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb

MTBE (EPA 8260B) @ 0.5 ppb

BTEX (EPA 8260B)

TPH Gas (EPA 8260B)

5 Oxygenates (EPA 8260B)

7 Oxygenates (EPA 8260B)

Lead Scav. (1.2 DCA & 1.2 EDB-EPA 8260B)

Volatile Halocarbons (EPA 8260B)

Volatile Organics Full List (EPA 8260B)

Volatile Organics (EPA 824.2 Drinking Water)

TPH as Diesel (EPA 8015M)

TPH as Motor Oil (EPA 8015M)

Total Lead (EPA 6010)

W.E.T. Lead (STLC)

TAT

☐ 12 hr

☐ 24 hr

☐ 48 hr

☐ 72 hr

☒ 1 wk

For Lab Use Only

Relinquished by:

Date

Time

Received by:

Remarks:

Relinquished by:

Date

Time

Received by:

Bill to:

Relinquished by:

Date

Time

Received by Laboratory:

For Lab Use Only: Sample Receipt

Temp °C

Initials

Date

Time

Therm. ID #

Coolant Present

2°C

BHB

111005

1110

1R-4

(Yes) / No



Report Number : 47366

Date : 12/19/2005

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 2 Water Samples
Project Name : Dave's 76
Project Number : NC-20

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 47366

Date : 12/19/2005

Subject : 2 Water Samples
Project Name : Dave's 76
Project Number : NC-20

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample Influent 12/8/05.

Approved By: _____

A handwritten signature in black ink, appearing to read "Joel Kiff". The signature is written over a horizontal line that serves as a signature line. Below the signature, the name "Joel Kiff" is printed in a small, sans-serif font.

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 47366

Date : 12/19/2005

Project Name : Dave's 76

Project Number : NC-20

Sample : Effluent 12/8/05

Matrix : Water

Lab Number : 47366-01

Sample Date : 12/8/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/16/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/16/2005
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/16/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/16/2005
Octacosane (Diesel Surrogate)	92.2		% Recovery	M EPA 8015	12/16/2005

Sample : Influent 12/8/05

Matrix : Water

Lab Number : 47366-02

Sample Date : 12/8/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	15	0.50	ug/L	EPA 8260B	12/16/2005
Toluene	1.5	0.50	ug/L	EPA 8260B	12/16/2005
Ethylbenzene	3.1	0.50	ug/L	EPA 8260B	12/16/2005
Total Xylenes	21	0.50	ug/L	EPA 8260B	12/16/2005
Methyl-t-butyl ether (MTBE)	260	0.50	ug/L	EPA 8260B	12/16/2005
TPH as Gasoline	410	50	ug/L	EPA 8260B	12/16/2005
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	12/16/2005
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	12/16/2005
TPH as Diesel	< 200	200	ug/L	M EPA 8015	12/16/2005
Octacosane (Diesel Surrogate)	94.4		% Recovery	M EPA 8015	12/16/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

Project Name : Dave's 76

Project Number : NC-20

Report Number : 47366

Date : 12/19/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/15/2005
Octacosane (Diesel Surrogate)	87.4		%	M EPA 8015	12/15/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/16/2005
Toluene - d8 (Surr)	102		%	EPA 8260B	12/16/2005
4-Bromofluorobenzene (Surr)	106		%	EPA 8260B	12/16/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/16/2005
Toluene - d8 (Surr)	97.8		%	EPA 8260B	12/16/2005
4-Bromofluorobenzene (Surr)	93.3		%	EPA 8260B	12/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 47366

Date : 12/19/2005


Project Name : Dave's 76

Project Number : NC-20

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	871	915	ug/L	M EPA 8015	12/15/05	87.1	91.5	4.93	70-130	25
Benzene	47380-05	<0.50	40.0	40.0	41.1	41.0	ug/L	EPA 8260B	12/16/05	103	102	0.273	70-130	25
Toluene	47380-05	<0.50	40.0	40.0	41.4	40.8	ug/L	EPA 8260B	12/16/05	104	102	1.43	70-130	25
Tert-Butanol	47380-05	<5.0	200	200	203	205	ug/L	EPA 8260B	12/16/05	102	103	0.930	70-130	25
Methyl-t-Butyl Ether	47380-05	0.64	40.0	40.0	43.6	44.0	ug/L	EPA 8260B	12/16/05	107	108	0.944	70-130	25
Benzene	47366-02	15	40.0	40.0	57.0	55.9	ug/L	EPA 8260B	12/16/05	105	102	2.49	70-130	25
Toluene	47366-02	1.5	40.0	40.0	42.8	41.9	ug/L	EPA 8260B	12/16/05	103	101	2.10	70-130	25
Tert-Butanol	47366-02	52	200	200	259	258	ug/L	EPA 8260B	12/16/05	103	103	0.536	70-130	25
Methyl-t-Butyl Ether	47366-02	260	40.0	40.0	307	308	ug/L	EPA 8260B	12/16/05	106	110	3.77	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 47366

Date : 12/19/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/16/05	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	12/16/05	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/16/05	94.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/16/05	103	70-130
Benzene	40.0	ug/L	EPA 8260B	12/16/05	102	70-130
Toluene	40.0	ug/L	EPA 8260B	12/16/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/16/05	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/16/05	98.2	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No.

47306

Page 1 of 1

Project Contact (Hardcopy or PDF To):

Andrew Policero

California EDF Report?

☐ Yes ☒ No

Chain-of-Custody Record and Analysis Request

Company / Address: Blue Rock Env.

535 3rd St. #100 Eureka, CA 95501

Sampling Company Log Code:

Phone #:

7074411934

Fax #:

7074411949

Global ID:

pdf

Project #:

NC-20

P.O. #:

EDF Deliverable To (Email Address):

Andrew@bluerockenv.com

Project Name:

Davis 76

Sample Signature:

[Signature]

Project Address:

1666 Main St.
Portlana, CA

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

40 ml VOA

Sleeve

Poly

Glass

Tedlar

HCl

HNO₃

None

Ice

Water

Soil

Air

MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb

MTBE (EPA 8260B) @ 0.5 ppb

BTEX (EPA 8260B)

TPH Gas (EPA 8260B)

5 Oxygenates (EPA 8260B)

7 Oxygenates (EPA 8260B)

Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)

Volatile Halocarbons (EPA 8260B)

Volatile Organics Full List (EPA 8260B)

Volatile Organics (EPA 524.2 Drinking Water)

TPH as Diesel (EPA 8015M)

TPH as Motor Oil (EPA 8015M)

Total Lead (EPA 8010)

W.E.T. Lead (STLC)

TAT
☐ 12 hr
☐ 24 hr
☐ 48 hr
☐ 72 hr
☒ 1 wk

For Lab Use Only

Relinquished by:

Andrew H2

Date

12/9/05

Time

1400

Received by:

Reel EX

Remarks:

Relinquished by:

Date

Time

Received by:

Relinquished by:

Date

Time

Received by Laboratory:

Bill to: BR Foster city

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.2	MAS	12/20/05	1000	IR-1	(Yes) No



Report Number : 47802

Date : 1/10/2006

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 15 Water Samples
Project Name : Dave's 76
Project Number : NC-20

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff